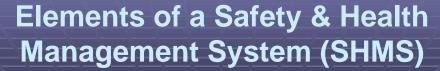


Elements of a Safety & Health Management System

Student Materials
MTI Level One Course
Consultation Education & Training Division
Michigan Occupational Safety & Health Administration
Michigan Department of Licensing and Regulatory Affairs
www.michigan.gov/miosha
(517) 284-7720

(Revised 11/14)





MTI Level One Certificate Course



Presented By:

Consultation Education & Training (CET) Division
Michigan Occupational Safety & Health Administration
Michigan Department of Licensing & Regulatory Affairs



www.michigan.gov/miosha (517) 284-7720



Welcome!

- Understanding the big picture is critical to successfully managing a company's safety and health management system. The primary emphasis of the seminar is to address the five core elements of an effective safety and health system and those central issues that are critical to each element's proper management.
- To get the most out of this course, it's important that everyone freely share their knowledge and experience with the class, so don't hesitate.



group activity



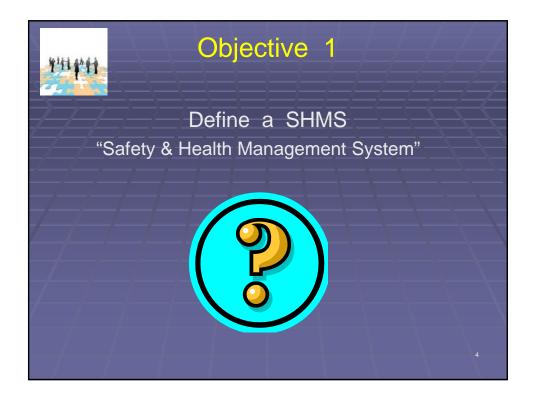
individual activity



class discussion

Objectives

- 1. Define SHMS
- 2. Gain a greater understanding of a SHMS
- 3. Define the 5 Critical Elements
- 4. Plan Evaluation
- 5. Group Techniques



Definition

A Safety and Health Management System (SHMS)

is a systematic and organized approach to manage and reduce safety and health hazards by integrating safety and health programs, policies, and objectives into the organization.

5

SHMS

- Simply stated, a SHMS is a set of safety and health program components that interact in an organized way.
- An organized framework for identifying, managing and reducing safety & health hazards.

What is a SHMS?

- For example, an employer finds an unsafe condition during a routine safety inspection of the facility.
- If an SHMS is implemented, the employer will not only seek to improve the condition to meet MIOSHA compliance, but will seek a long-term solution to ensure the noncompliant condition will not reoccur.

7

Systems Working Together

An organization is a collection of systems.

Merriam-Webster.com defines systems as:

"A regularly interacting or interdependent group of items forming a unified whole"



Other Management Systems

Human Resources – consists of policies, procedures and practices related to employment.

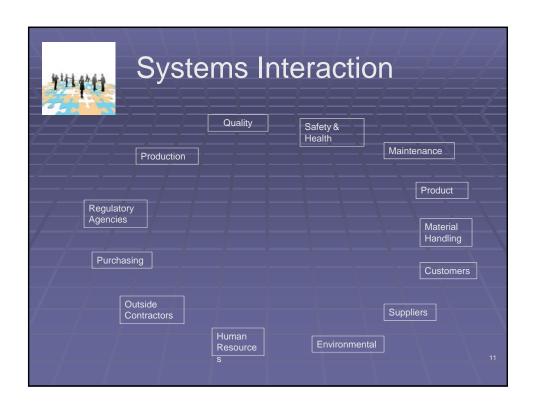
Quality Management – such as ISO 9000, is a family of standards that prescribes specifications for an organization to meet the customer's quality requirements..

9

Safety & Health Balance

These include production, sales, and quality control. To be most effective, safety and health must be balanced with, and incorporated into, the other core business processes.







Results of a systems approach

An effective system supports the organization's philosophy.

Safety and health policies and goals are clearly communicated.

Accountability for implementing the system is understood and accepted.

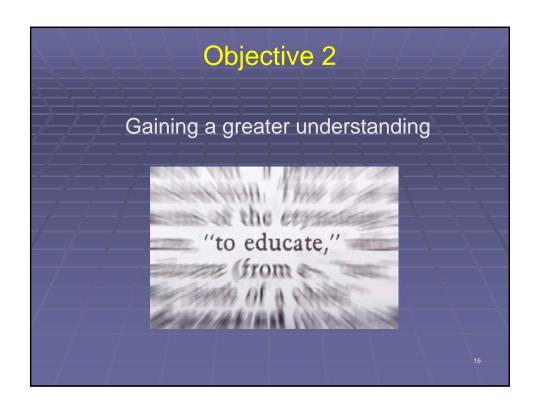
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Results of a systems approach

Long-term solutions are implemented rather than one-time fixes.

Evaluation of results over time promotes continual improvement.

An effective system positively impacts the company's bottom line.



SHMS is unique

 An effective SHMS must be uniquely designed for each organization. It is not a "one size fits all."

Why implement a SHMS?

- A SHMS adds value to the workplace!
- Everyday, workplace injuries, illnesses and fatalities cause immeasurable pain and suffering to employees and their families.
- It's the right thing to do.

17



What benefits can this add?

Besides protecting workers, the benefits of implementing a safety and health management system include:

- Lowered workers' compensation costs due to fewer injuries.
- Increased productivity, efficiency, and product quality.
- Increased employee morale and well being.

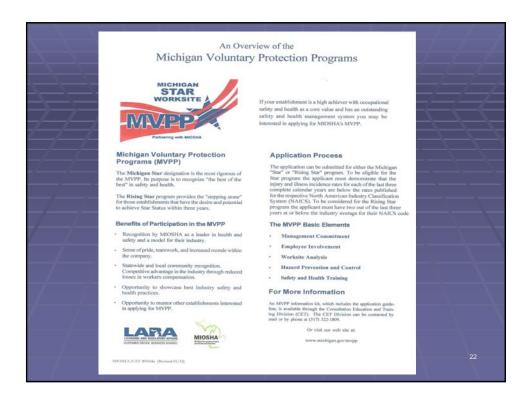
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Added benefits:

- Lower absenteeism and employee turnover.
- Reduced lost workdays.
- Compliance with standards and regulations.



- Reduced lost workday injuries.
- VPP Sites have SHMS implemented.
 - The average VPP worksite has a Days Away Restricted or Transferred (DART) case rate of 52% below the average for its industry.



- Reduction or elimination of property damage due to incidents.
- Reduced business interruption costs.
- Reduced impact on the environment due to incidents.

23

Added benefits:

Improved productivity and quality. The systematic requirements of an SHMS leads to a healthier, safer workforce with fewer mistakes and less downtime.

When managers emphasize employee participation in SHMSs, employees have the opportunity to take ownership of their work environment and their contributions have proven to be tremendous.



25



Question

- How can a company benefit from implementing an SHMS?
- A. Fewer work-related injuries, illnesses and deaths
- B. Lower employee turnover
- C. Higher employee morale
- D. Lower workers' compensation costs
- E. All of the above



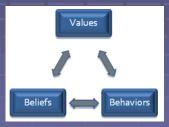
Safety and Health Program Check-Up

- To find out how your safety and health program measures up, complete the following survey.
- There is no right or wrong answers.
- This checkup will help identify areas where improvements can be made.

27

Creating a Safety Culture

 Management must create a culture where "safety and health" are a value, not just priorities.





Can culture impact safety performance?

 Organizational culture refers to the driving values of an organization, or in simple terms, the "unwritten rules" of the company.

29

Organizational Culture

 Effective leaders look realistically at culture and identify issues that could undermine safety objectives.



Organizational Culture

- Leadership drives the culture of an organization.
- Safety leadership refers to seeing the right things to do to reach objectives and motivating the teams to accomplish them effectively.

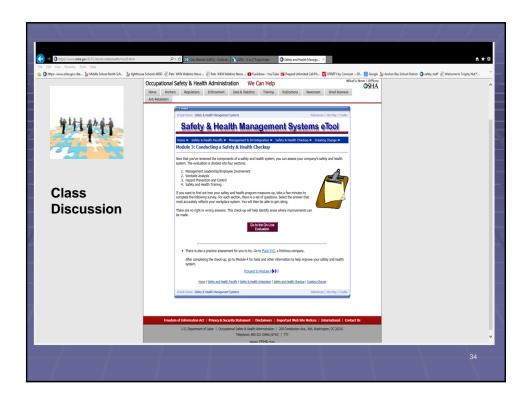
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Organizational Culture

Safety leadership is exercised by decision making which is related to the beliefs of the leader and demonstrated by his or her behavior.

Positive Culture

 Companies that effectively manage their SHMS will most likely have a positive safety culture and a high level of safety performance.



Objective 3

Define the 5 critical elements

An effective SHMS consists of five critical elements that apply safety and health management practices of employers who have been successful in protecting the safety and health of their employees.

30

Employee Involvement Worksite Analysis Management Commitment Safety & Health Training

1st Critical Element 1. Management Commitment

• All organizations must embrace a culture where all members actively manage workplace safety and health by implementing a comprehensive safety and health management system.



31

Core Management Issue

If your company wants to reduce accidents, injuries, illnesses, and their related costs, everyone must place as much emphasis on safety and health issues as they place on other core management issues.

Communicate & Demonstrate

 Management must communicate, and continually demonstrate, to employees that safety and health issues must be factored into all aspects of business operations

39

S & H Must be a Priority

- Employees, supervisors and managers must perceive that safety is not just "today's priority" subject to change tomorrow.
- Regards worker safety and health as a fundamental value
- Applies commitment to safety and health equally with other objectives

Management Leadership

- Workplace safety is a right and responsibility. Act 154 Sec.11(a) Duties of Employer:
- Furnish to each employee, employment and a place of employment that is free from recognized hazards that are causing, or are likely to cause, death or serious physical harm to the employee.
- Your employees have a right to a safe workplace and must be involved in keeping it that way.

41

Traits of Success Managers

- Getting out where you can be seen, informally or through formal inspections.
- Being accessible.
- Being an example, by knowing and following the rules employees are expected to follow.
- Being involved by participating on the workplace Safety and Health Committee.

Show your commitment by:

- Writing a company safety & health policy that emphasizes what safety means to your business and states your expectations for all employees.
- Include your program's safety and health goals and reinforce your belief that workplace safety is a responsibility that all your employees share.

43

Show your commitment by:

- The most important thing you can do for your safety program is to believe that safe production is the only way to do business
- Making sure your employees follow safe work practices — and you follow them, too.



Characteristics of an Effective SHMS

- Easy to understand and implement
- Needs to be used and understood by all employees
- SHMS should be adaptable to allow changes and improvements in your organization.

o

Show your commitment by:

- Giving your employees the authority they need to carry out their safety responsibilities.
- Budgeting the time and resources to achieve your workplace safety goals.

47

Successful Implementation

- Requires work to implement
- Must be supported by management
- Safety Committee involvement
- Ensure adequate time and resources to train employees on all systems

Show your commitment by:

- Acting on the recommendations from your safety committee or safety meeting group.
- Making sure your employees have the safety and health training they need to do their jobs.

49

Periodic reviews or audits

- Reviews of the SHMS will help identify:
 - Problems or deficiencies in the system
 - Develop corrective actions
 - Keep you on track to meet goals and objectives

Question

To increase the likelihood of developing an effective SHMS, you should only include a few key personnel during the planning and implementation process.

True or False



51

Identify a Key Person

- Identify a key person or staff to oversee the development of your SHMS.
- While it's good to involve all employees in the implementation of the program, someone needs to be in charge.
- The person in charge will need the authority to make changes where necessary and bring critical issues to the attention of management.



All employees involved

While a key person or personnel should have responsibility and authority for developing the SHMS, it's essential to involve **all** employees during the planning and implementation of the program.



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Group Activity

- 20 minutes for groups to discuss amongst themselves.
- Fill out the Management Commitment Providing Leadership Worksheet as a group and be prepared to share your findings with the class.

Safety & Health Management Systems eTool

- Included on your flash drive is an example of a Strategic Plan for creating a SHMS.
- The Strategic Plan eTool helps you to map out your vision for safety & health and lists 13 goals to accomplish.
- Each goal is assigned to a person and has a completion date.

55

Best Practice: Marathon Refinery

- Detroit
- Refinery
- nvestment in the
- Value of its
- Employees



Drive Safety

A Little History

- 2003 2005 Marathon's Detroit
 Refinery safely completed Clean
 Fuels Expansion Project
 - Focused
 - Many Hours
 - Major Construction among existing refinery equipment
 - Finished 2005 with 1.09 OSHA recordable rate
- <u>2006</u> We Lost our Way
 - Went from Construction Mode to Operating Mode
 - Many new employees
 - Finished year with 1.81 OSHA recordable rate



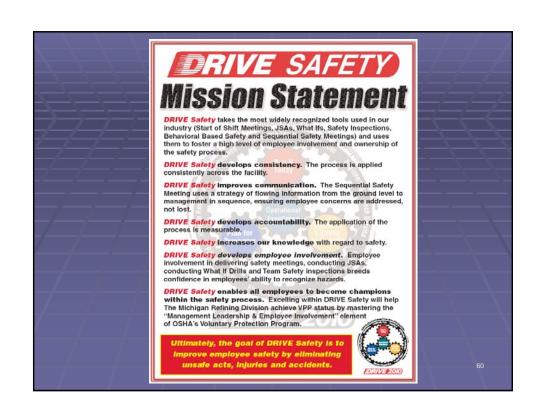
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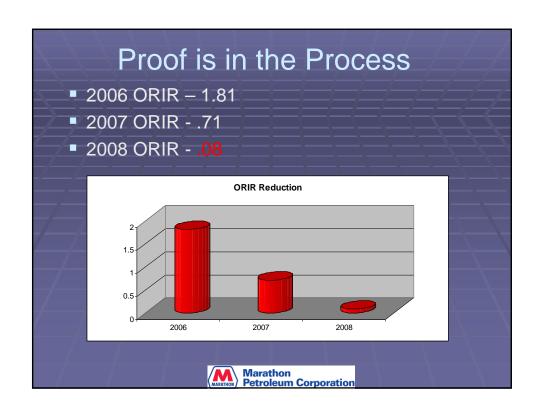
A Little History

- 2006 Scored lowest of the Marathon's 7 refineries in Metris Survey (perception survey)
- Millions spent on safety upgrades (e.g., expansion project, fire protection, fall protection, safety showers)
 - 2003 2006 featured hundreds of millions invested in equipment!
- It was time to investment in EMPLOYEES.

Called for Help

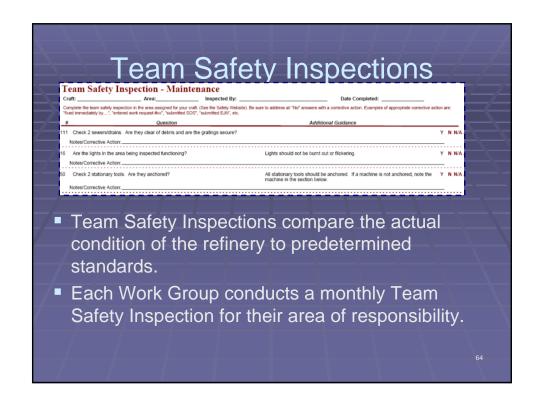
- Partnered with a renowned third party
 - Specialty was Structured Safety
 - 30 years of experience
 - 40+ major companies
 - More than 500 facilities throughout the world
 - 33 OSHA VPP Facilities
 - Numerous Best in Class and Top Quartile Clients

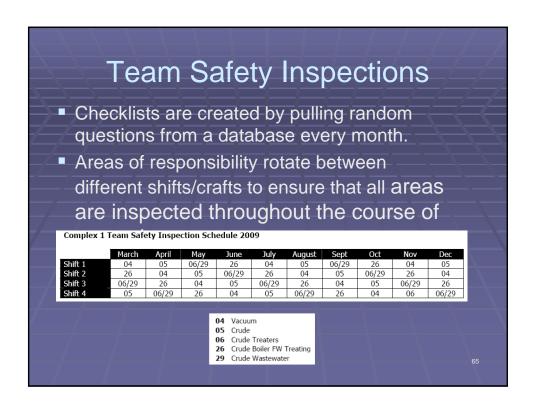


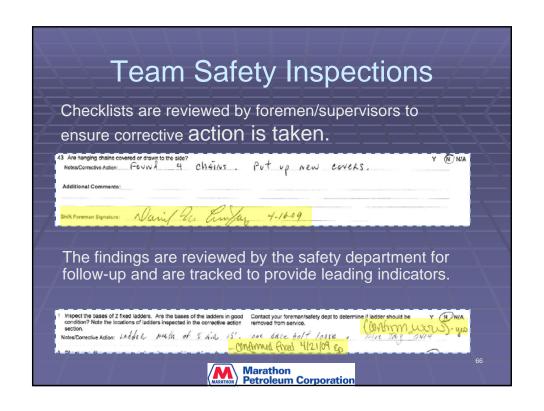












Results!

- Lowest Recordable rate in facility and company history
- First Marathon union facility to achieve VPP
- 2008 President's Award winner for Responsible Care®
- Zero contractor recordable injuries for 2+ years
- 1,200 days without lost-time injury
- 97% participation in 2008 HES perception survey



Continuous Improvement

- Currently working to improve/update tools
- Team Safety Inspections
- JSAs
- What Good Looks Like (WGLL)
- Sequential Meetings
- What if Drills



2. Employee Involvement

Employee involvement provides the means through which workers develop and express their own commitment to safety and health, for both themselves and their fellow workers.



Employee Involvement

This is accomplished when employees understand the value placed on safety and health by top leadership, their own performance responsibilities and continuous learning about safety and health.

71

Benefits of employee involvement

- Employees know and understand the hazards of the work they perform.
- Can provide possibly overlooked suggestions for improvement.
- Well-trained employees can ensure that new employees are properly informed of workplace hazards during on-the-job training

Involve employees by:

- Participation in accident or incident investigations.
- Conducting workplace or departmental safety and health inspections.
- Developing and/or evaluating written safety procedures.
- Participation in safety and health committees.
- Assist in safety training of other employees.

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Employee Involvement

- You won't have a strong safety program without employee participation.
- Your employees operate the equipment, use the tools, and do the tasks that expose them to hazards so they need to be involved in the effort to keep the workplace safe.

Employee Involvement

- Suggesting safety policies, safety-training topics, and ways to allocate safety resources.
- Suggesting ways to prevent and control hazards.

75

Why should employees be involved?

- Group decisions have the advantage of the group's wider range of experience.
- Employees are more likely to support and use programs in which they have input.

Employee Involvement = Actively Engaged Employees

Employees who are encouraged to offer their ideas and whose contributions are taken seriously are more satisfied and more productive on the job.

77

Best Practice Steel Industries Steel Industries And the processor (cst of both the cst 1 hours) Steel Industries St





Day 1 Summary

- 1. Define SHMS
- 2. Gain a greater understanding of a SHMS
- 3. Define the 5 Critical Elements
 - 1. Management Commitment
 - 2. Employee Involvement

81

Day 2 objectives

Finish defining the 5 Critical Elements

- 1. Management Commitment
- 2. Employee Involvement
 - 3. Hazard Prevention & Control
 - 4. Worksite Analysis
 - 5. Safety & Health Training

Plan Evaluations

Group Techniques

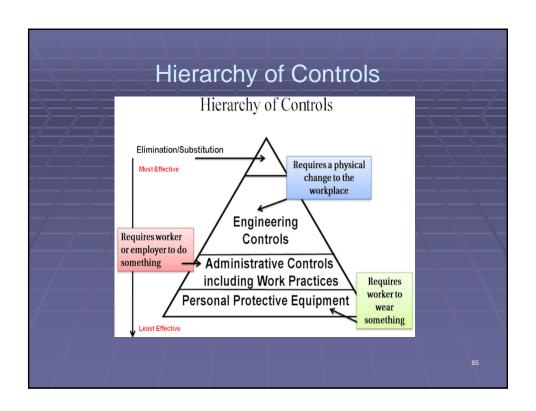
3. Hazard Prevention & Control

- The best way to control a hazard is to eliminate it. If you can't eliminate it, control it so that it won't do any harm.
- The best controls also protect the worker by reducing the risk of human error, such as interlocks on guards and other "failsafe" mechanisms

83

Hierarchy of Controls

- When it is not possible to eliminate a hazard, you should control the hazard using the following methods (in order):
 - Engineering controls
 - Administrative controls
 - Personal Protective Equipment



Engineering Controls

- If hazard elimination or substitution is not feasible, engineering controls should be considered next.
- Engineering controls are physical changes to the work area or process that effectively minimize a worker's exposure to hazards

B6

Engineering Controls

- Remove / Redirect Hazard
 - Removal or redirection of the hazard such as with local and exhaust ventilation.
- Redesign Workplace
 - Redesign of workstation to minimize ergonomic injuries.

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Engineering Controls

- Enclosed Hazard
 - Enclosure of the hazard, such as enclosures for noisy equipment – noise dampening.
- Isolate Hazard
 - Isolation of the hazard with interlocks, machine guarding, welding curtains, and other mechanisms.

The Next Step

• If engineering controls are not feasible you must then consider implementing administrative controls.

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Administrative Controls

- No physical changes
- Limit time exposure to hazards by adjusting work tasks or schedules
- Written operating procedures, Work practices, and Safety and health rules for employees

Samples of Administrative Controls

- Written procedures & practices
- Safety & Health Rules
- Alarms, signs and warnings
- Buddy system
- Training
- Stretching exercises and break policies

91

Personal Protective Equipment (PPE)

- Used when hazards cannot be eliminated through engineering or administrative controls,
- Must consider personal protective equipment (PPE) necessary for employee protection

Which of the following statements is true?

- A. PPE is the lowest level of hazard control.
- B. PPE may be used with engineering and administrative controls for the most effective control measures.
- C. PPE is considered first when implementing hazard controls.
- D. A and B, only

93

Best Practice Marathon







4. Worksite Analysis

- Does your employer use CET Services?
- Does your employer do a monthly/quarterly/yearly walk through?

95

MIOSHA CET Services

Hazard Survey

MIOSHA CET can conduct a hazard survey at no cost.

• Many workers' compensation carriers and other insurance companies offer expert services to help their clients evaluate safety and health hazards.

Safety & Health Management System Evaluation

- Form 512 used by CET and Enforcement
- Used to see if the 5 elements of an SHMS are present in the company

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Establishment Street Address:			City		Zip		
CET Division On	ıly:						
Contact:				Telephone #:			
Employee Code:		NAICS:		Visit Date:			
Program Type:	Training & Consulta	ation _	Onsite Consultation	Re-evaluation:		Yes 🔘	No O
Hours Worked:				DART Cases:		Total Cases:	
Industry DART:		Source:		Facility DART:			
Industry TCIR:		Source:		Facility TCIR:			

Perform regular workplace inspections

- Regular workplace inspections tell you whether you've eliminated or controlled existing hazards and help you identify new hazards.
- Quarterly inspections by employees trained in hazard recognition are a good way to get the job done.

What's a worksite analysis and how often should it be done?

- A worksite analysis means that the worksite is looked at to identify and eliminate existing or potential hazards.
- There should be a comprehensive, baseline survey, with a system in place for periodic updates.

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Worksite Analysis

- Worksite analysis involves a variety of worksite examinations to identify not only existing hazards, but also conditions and operations in which changes might create hazards.
- Effective management actively analyzes the work and the worksite, to anticipate and prevent harmful occurrences.

Worksite Analysis

- Numerous private consultants provide a variety of safety and health expert services.
- Larger businesses may find the needed expertise at the company or corporate level.

101

Change Analysis

Anytime something new is brought into the workplace, whether it be a piece of equipment, different materials, a new process, or an entirely new building, new hazards may unintentionally be introduced.

Change Analysis

- Before considering a change for a worksite, it should be analyzed thoroughly beforehand.
- Change analysis helps in heading off a problem before it develops.

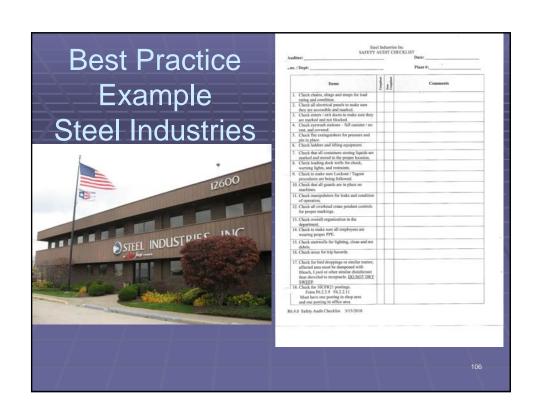
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Routine site safety and health inspections

- Routine site safety and health inspections are designed to catch hazards missed at other stages.
- This type of inspection should be done at regular intervals, generally on a weekly basis.

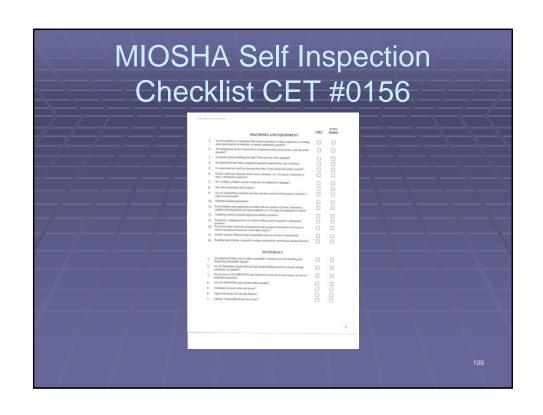
Routine site safety and health inspections

In addition, procedures should be established that provide a daily inspection of the work area. You can use a checklist already developed or make your own,

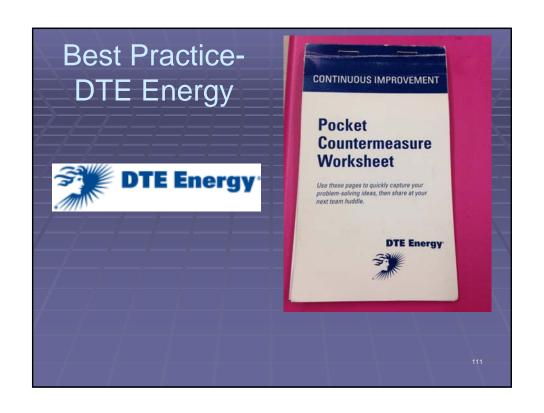


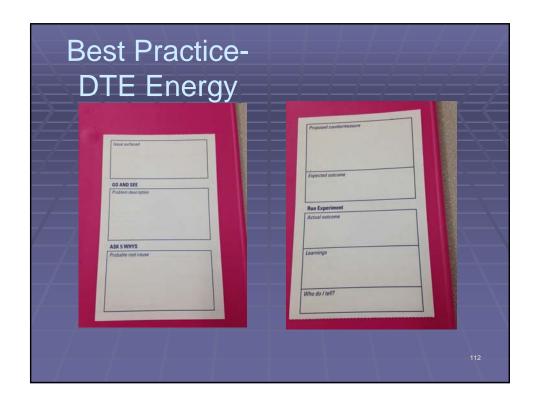
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	 To you provide asking and builth minning for all continuous requiring such training, and in 0 discussional? 					
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Perform a JSA/JHA

- JSA = Job Safety Analysis
- JHA = Job Hazard Analysis
- Pre-job checklist

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JSA/JHA

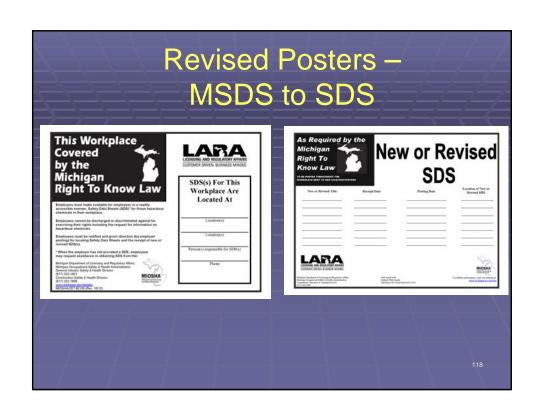
- One of the most commonly used techniques is the Job Safety Analysis (JSA) or Job Hazard Analysis (JHA).
- Jobs that were initially designed with safety in mind may now include hazards or improper operations. When done for every job, this analysis periodically puts processes back on the safety track.



New Hazards

- Before introducing a new procedure, new work process or a new piece of equipment
- Do you share this information with your other locations/facilities (best practices)





Catching Hazards that Escape Controls

• After hazards are recognized and controls are put in place, additional analysis tools can help ensure that the controls stay in place and other hazards don't appear.

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Other Tools

- These other tools include:
 - Employee reports of hazards.
 - Accident and incident investigations.
 - Near miss reports.
 - 300 a logs.
 - Injury and illness trend analysis.

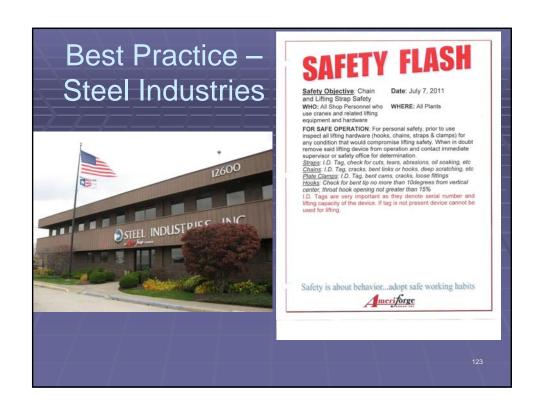
Investigate accidents

- Investigate accidents to determine root causes.
 - Most accidents are preventable. Each one has a cause — poor supervision, inadequate training, and lax safety policies are examples.
 - When you eliminate the cause, you can prevent another accident.

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5. Safety & Health Training

- Your employees need to know their safety responsibilities, what hazards they could be exposed to, and how to control their exposures.
- New-employee orientations, emergency drills, classroom sessions, and hands-on practice are good ways they can learn. And don't forget managers and supervisors.





Training

- Refresher training
- Re-training when there's an accident or near miss
- Training when transferred to a different job
- Forklift Training
- Right to know training
- Training on evacuation / emergency preparedness
- Annual Training

125

Objective 4

Plan Evaluation

Evaluating your SHMS

Evaluate the SHMS

- Evaluation of the results over time permits the process to continue to be improved.
- Break down the SHMS into small sections and use the PDSA to evaluate each section.

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Plan-Do-Study-Act (PDSA) PLAN ACT Shewhart PDSA Cycle STUDY

When do I use PDSA?

- You can use PDSA to monitor the achievements and shortfalls of a process.
- It can also be used to implement and review best practices and benchmarks.

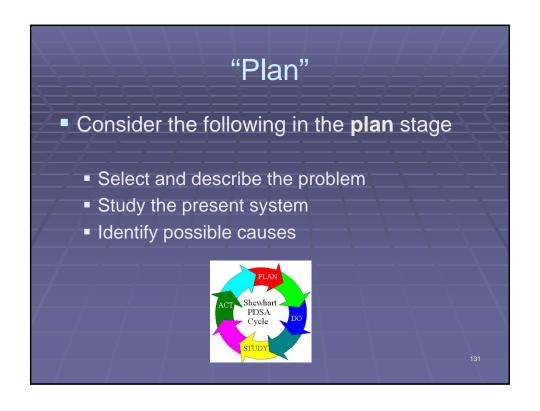


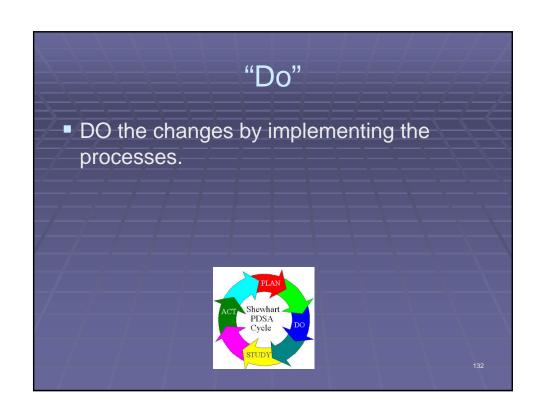
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How do I use PDSA?

Plan the processes you need to achieve the desired improvements for.



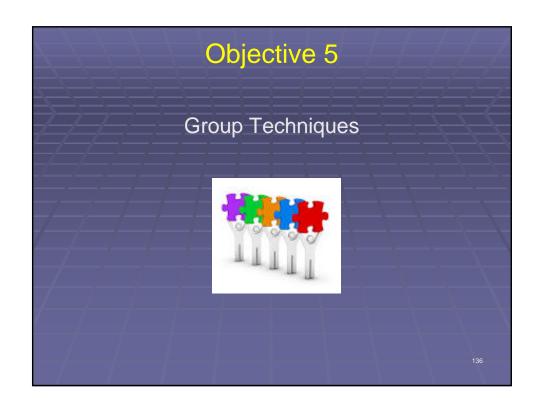




"Study" if the changes achieve the desired improvements. Analyze the results and take notes.



PDSA Video • https://www.youtube.com/watch?v=xzAp6ZV5ml4

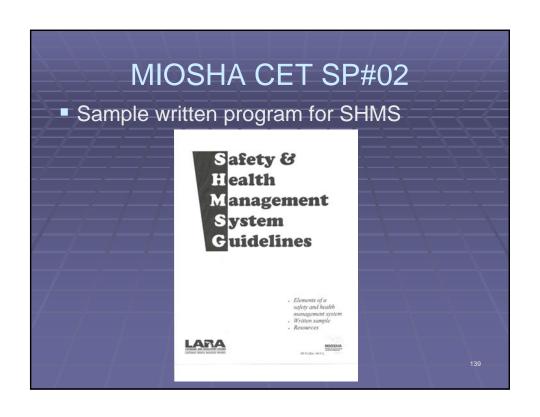


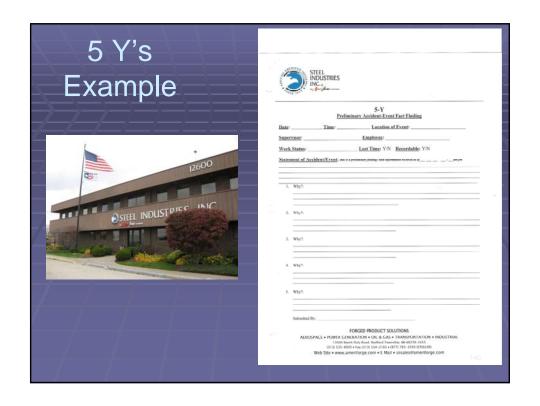
Group Techniques

- 5 Why's Root Cause Analysis
- Nominal Group Technique (NGT)
- 6 Thinking Hats

http://youtu.be/INj89T4ILAQ

5-	Whys (5Y) to a	a Root Cause
	Level of Problem	Corresponding Level of Countermeasure
oblem	There is a puddle of oil on the shop floor.	Clean up the oil
/hy:	Because the machine is leaking oil	Fix the machine.
iny?	Because we bought gaskets made of inferior material.	Change gasket specifications.
iny?	Because we got a good deal (price) on those gaskets	Change purchasing policies.
iny?	Because the purchasing agent gets evaluated on short-term	Change the evaluation policy for purchasing agents – Root
	cost savings.	Cause.





Nominal Group Technique (NGT)

- Promotes creativity and objectivity.
- Benefits:
 - Balances participation across members.
 - Balances influence of individuals.
 - Produces more creative ideas and greater number of ideas than interacting groups.

14

Nominal Group Technique

- Results in greater satisfaction of participants.
- Reduces conforming.
- Confront issues rather than persons.
- Greater sense of closure and accomplishment.

Nominal Group Technique

- Limitations:
 - Requires advanced preparation.
 - Limited to single-purpose, single-topic meeting.
 - Needs agreement from all participants to use the same structured method.

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Nominal Group Technique

- Preparations:
 - Room
 - Large enough for groups with tables
 - Far enough apart to limit distractions
 - U-shape with flip chart at open end of 'U'
 - Supplies
 - Flip chart for each group (post-it or masking tape)
 - Voting slips

Nominal Group Technique

- Statement of Purpose:
 - Clarify members roles.
 - Remind importance of contribution and full participation is expected.
 - State the problem.
 - Indicate how the group's output will be used.

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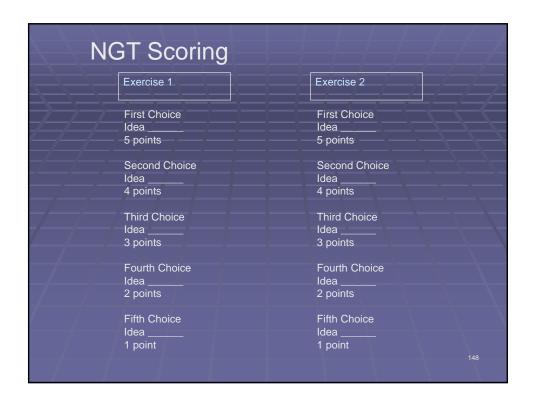


Committee Problem Solving Exercise 1: Solve for the Problem

- 1. Define the Issue write it down!! (1 minute).
 - What are the problems that cause unsuccessful safety committee meetings?
- 2. Brainstorm & list your own ideas...silently. (3 minutes).
- 3. Round Robin collect and record the ideas (10 minutes).
- 4. Refine the list Clarify & Combine (3 minutes).

Exercise 1: Solve for the Problem

- 5. Determine the importance (3 minutes)
- 6. Record the ratings (3 minutes)
- 7. Total the points (3 minutes)
- 8. Assign a Priority Number (3 minutes)



Committee Problem Solving Exercise 2: Solve for a Solution

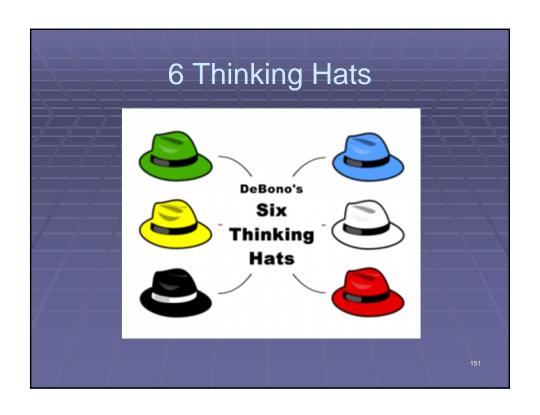
- ACTIVE start solution statement with active verb.
- MEASURABLE the solution should be measureable

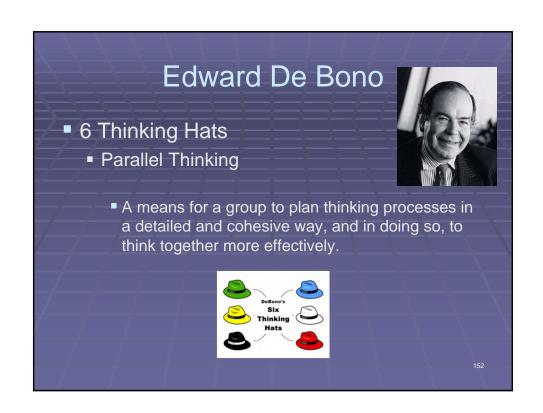
Example of Problem -Solving Action Verbs Objective: Related Action Verbs Attitude Development adjust analyze assess choose criticize decide evaluate pick select Skill Development assemble prepare compute process construct prove record count repair solve design speak develop transcribe draw type demonstrate measure operate write Knowledge Development identify compare list define name í decide repeat differentiate describe relate

reproduce

distinguish

enumerate





6 Thinking Hats

- Systematic method of thinking
 - The group separates thinking into 6 distinct categories.
 - Each category has its own colored metaphorical "thinking hat".
 - By mentally wearing and switching "hats", you can easily redirect thoughts, the conversation or the meeting.

Thinking

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6 Thinking Hats Explanation

<iframe width="560" height="315"
src="//www.youtube.com/embed/jT_z4
hM3IWw" frameborder="0"
allowfullscreen></iframe>

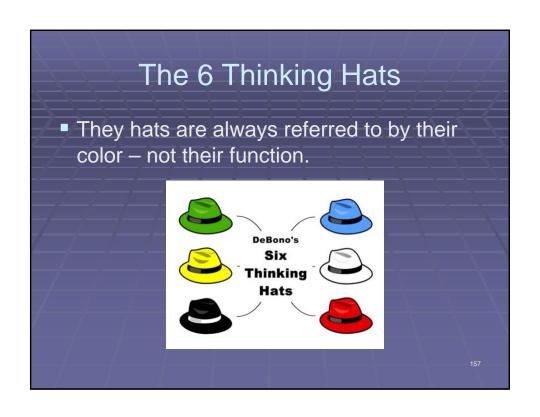
2 Main Purposes

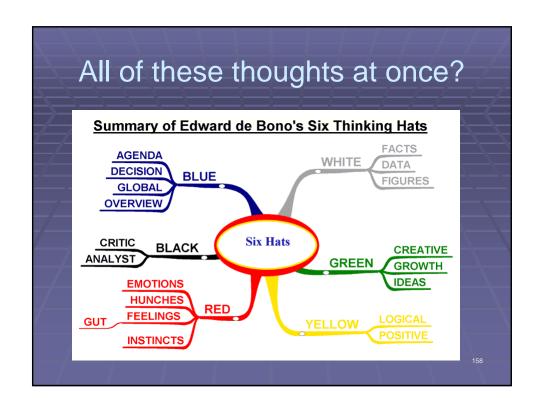
- The first purpose is to simplify thinking by allowing a thinker to deal with one thing at a time.
- The second purpose is to allow a **switch** in thinking.

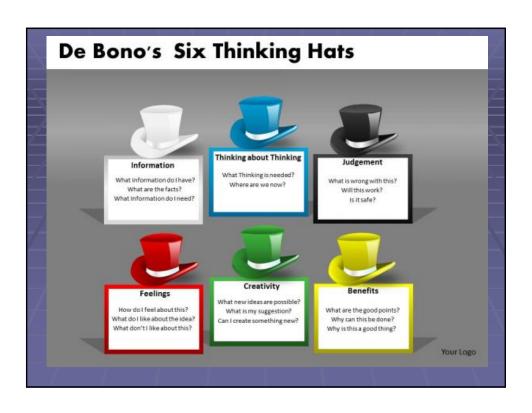
155

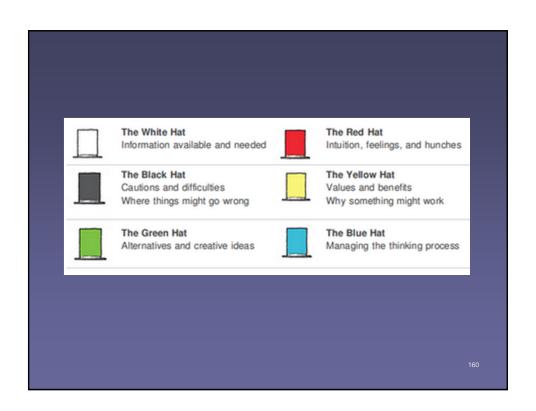
6 Hats Thinking

- Six Thinking Hats is a good technique for looking at the effects of a decision from a number of different points of view.
- It allows necessary emotion and skepticism to be brought into what would otherwise be purely rational decisions.











Group Exercise

- Everyone in the class works for ABC Company.
- ABC Company wants to increase employee safety & health training.
- ABC Company employs 300 people.
- They run 2 shifts.

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Class Exercise

- They are thinking about purchasing 8 new computers for the training.
- Each computer will cost \$2,500. Total cost would be \$20,000 for the 8 computers.
- To hire a presenter to train the employees would cost \$2,500 per day.



Class Exercise

- They are thinking about purchasing 8 new computers for the training.
- Each computer will cost \$2,500. Total cost would be \$20,000 for the 8 computers.
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Day 2 objectives

Finish defining the 5 Critical Elements

- 1. Management Commitment
- 2. Employee Involvement
- 3. Hazard Prevention & Control
- 🌱 4. Worksite Analysis
- 5. Safety & Health Training
- Plan Evaluations
- ✓ Group Techniques

Assessment

- The purpose of this assessment is to validate the knowledge learned in class.
- Passing score of 70% correct is required.
- Class reference materials/books are not allowed to be used during the assessment.
- Collaboration/discussion with others is not allowed during the assessment.
- Answers will be reviewed after everyone completes and submits their assessment.

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Online Transcript

https://webadvisor.macomb.edu

What?

- Check individual courses Proficient / Not Proficient
- Track courses taken through the MTI
- Request a transcript to show certification
- Manage account information

How?

- Select What's My User ID?
- Key in the Last Name and SS# or Macomb ID
- Select Log In
- If you need help call 586.445.7506 or email scwebreg@macomb.edu

Thank You For Attending This Presentation

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